INTERNATIONAL SEARCH REPORT

Inten _ Application No PCT/EP2004/052292

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01J31/02 B01J B01J23/755 B01J23/44 C07C2/08 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) B01J C07C IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category ° Relevant to claim No. Α M.F. PINHEIRO, R.S. MAULER, R.F. DE SOUZA: 1 - 13"Biphasic Ethylene Polymerization with a Diiminenickel Catalyst" MACROMOL. RAPID COMMUN. vol. 22, 2001, pages 425-428, XP002279101 the whole document Y. CHAUVIN, S. EINLOFT, H. OLIVIER: 1 - 13"Catalytic Dimerization of Propene by Nickel-Phosphine Complexes in 1-Buty1-3-methylimidazolium Chloride/AlEtxCl3-x (x=0,1) Ionic Liquids" IND. ENG. CHEM. RES., vol. 34, 1995, pages 1149-1155, XP002279102 the whole document Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the International filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another cliation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the International filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the International search Date of mailing of the international search report 17 December 2004 23/12/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Schoofs, B

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CHAUVIN Y ET AL: "Oligomerization ofn-Butenes Catalyzed by Nickel Complexes Dissolved in Organochloroaluminate Ionic Liquids" JOURNAL OF CATALYSIS, ACADEMIC PRESS, DULUTH, MN, US, vol. 165, no. 2, 15 January 1997 (1997-01-15), pages 275-278, XP004459645 ISSN: 0021-9517 the whole document	1-13
Α	US 2003/166985 A1 (ZUSHMA STEPHEN ET AL) 4 September 2003 (2003-09-04) paragraph '0106!; examples	1-13
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Information on patent family members

Inten __ Application No PCT/EP2004/052292

						C1/E1 2004/ 032232		
Pa cited	tent document in search report		Publication date		Patent family member(s)		Publication date	
US	2003166985	A1	04-09-2003	MO	03072529	A1	04-09-2003	
					•			
	•							